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MEDICAL UNIVERSITY  
OF  
SOUTH CAROLINA

*Annual Report*  
*1980-1981*



MEDICAL UNIVERSITY  
OF  
SOUTH CAROLINA

*Annual Report*  
*1980-1981*



The Medical University of South Carolina does not discriminate on the basis of race, color, creed, national origin, ancestry, sex, age, veteran status, or handicap, in the recruitment and admission of students, employment of faculty and staff, and the operation of other educational activities and programs, as specified by federal and state laws and regulations.

SOUTH CAROLINA

Annual Report  
1980-1981



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	College of Dental Medicine

Honorable Ladies and Gentlemen:

In last year's report I called attention to a growing interaction between industry and education. Since then, Charleston has been selected as a plant site by a high technology firm because of the presence of the Medical University, a major academic health center.

This and anticipated linkages with industry are being made possible by an expanding research base in higher education. The Council of Presidents has taken note of this development and has increased efforts to strengthen this base while encouraging additional interinstitutional cooperation, and the Governor has appointed a study committee on this topic. For details of MUSC actions I refer to this year's report by our Office of Research and Sponsored Programs.

We are grateful for your help. With your continued support of education, including research in higher education, South Carolina should benefit from healthy economic growth and improvements in the quality of life.

WILLIAM H. KNISELY, Ph.D.  
*President*



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## MEDICAL UNIVERSITY OF SOUTH CAROLINA

The Medical University is the State's only free-standing academic health center providing a comprehensive range of programs in the biomedical sciences.

Founded in 1824 as the oldest medical school in the South, its College of Medicine pioneered in the clinical teaching of students in a hospital specifically provided for this purpose and members of its faculty wrote some of the first American medical textbooks.

The University was a proprietary institution through its early history, but with the Flexner Report and the much heavier financial demands it placed upon the school, the State was prevailed upon to assume ownership in 1913. University status was achieved in 1969.

The institution includes six colleges, the division of continuing education and a major teaching hospital. In addition to the College of Medicine, there are the College of Pharmacy, in continuous service since 1894; College of Graduate Studies, which issued its first graduate degree in 1951; College of Nursing, celebrating its centennial in 1983, which instituted its four-year baccalaureate program in 1965; College of Allied Health Sciences, established in 1966, which offers 26 training options; and College of Dental Medicine, which graduated its first class in 1971. A Dean of Continuing Education was appointed in 1979.

Today the scope and geographical extent of its services are impressive. Through consortial and regional affiliations, cooperation takes place with other colleges and agencies, and more than 50 hospitals around the state are able to participate fully or in part in numerous programs.

The University's honor roll of distinguished contributors to medicine includes Sims (founder of American gynecology), Thomas (surgical innovations), Strobel (epidemiology), Geddings (pathological anatomy), Wagner (pathological and surgical anatomy), Parker (neurosurgery), Porcher (germ theory), Chazal (epidemiology), Banov (community health), Lynch (asbestosis), Smithy (heart surgery), and Waring (medical history).



## COLLEGE OF MEDICINE

The academic year was dominated by the South Carolina Budget and Control Board mandated reduction in state appropriations (9.5 percent for the University and 7.7 percent for the College of Medicine), the process and consequences of the General Accounting Office (GAO) audit, and the College of Medicine accreditation visit.

The budget reduction was allocated to the various academic and administrative units within the College. While it will result in only a minor reduction of academic activity in the immediate future, it is now clear that the College has no further reserve and that additional financial difficulties will result in severe program reduction. Of grave concern was the significant loss in academic flexibility which attended the budget adjustment.

The College of Medicine was site visited by the Liaison Committee on Medical Education and subsequently was awarded full accreditation. The major concerns of the survey team focused upon the adequacy of the resources (dollars and facilities) required to support a class of 165 entering students, the adequacy of the pool of qualified applicants from South Carolina, the impact of the GAO audit upon the fiscal future of the College, and the apparent "distance" between College of Medicine faculty and the student body.

The search for leadership in Pediatrics continues with an improved understanding by the faculty, search committee and administration of the desired requirements for the position. Initially, the search was hindered by the fact that Pediatrics was underdeveloped and it has taken time to bring the necessary resources into place. The committee has made a recommendation, and the possibility of recruiting the candidate now seems bright. The Medicine Chair has been vacant only a short time, but the search committee has functioned very smoothly and recommendations have been received. The top candidate has expressed serious interest in the position and is scheduled for a return visit in the near future. A significant aspect of the Orthopedic Search has been the conversion of a department staffed entirely by part-time faculty to the establishment of a "full-time" group. This has created new demands upon physical facilities which have taken time to resolve. Finally, the search in Physical Medicine and Rehabilitation has demonstrated the small reservoir of talent in this field and the relative lack of resources at the Medical University to develop several academic areas at one time. Therefore, serious consideration



is being given to merging this activity with another academic and administrative unit.

There was a net gain of 222 physicians in South Carolina last year; the College of Medicine claims major credit for this increase which is a product of its undergraduate medical school, its residencies, statewide undergraduate (Consortium) teaching programs, and its active physician recruitment program. Data relative to educational programs show: (1) the number of undergraduate student rotations with affiliated hospitals totals 1,077 student weeks, an increase of 307 over the previous year, (2) the number of residencies (396 at MUSC, 319 in Consortium hospitals) increased by 16 over the previous period, (3) the number of Primary Care residencies (445) increased by 9 over the previous year; the number of undergraduates earning the M.D. degree was 166 and the number of residents completing their program of training numbered 178 (96 at MUSC and 82 at affiliated sites). Qualitatively, the undergraduates of the College of Medicine showed continued improvement as measured by their scores on Parts I and II of the National Board Examination.

Teaching through exemplary diagnosis and treatment necessarily involves an efficient organization in the Charleston area of large numbers of indigent patients; given limited resources, such organization is a constant challenge. In this regard, management of the Charleston County Hospital was placed under contract to the Medical University. Also, two new model primary care clinics were established in the recently acquired First National Bank Building. A great deal of faculty effort has been devoted to the rational replanning of the traditional medical care delivery modalities (buildings, programs, services) in the MUSC-County Hospital complex. Accommodation to the earthquake-proofing of the V.A. Hospital has required the relocation and/or curtailment of certain traditional health and medical care services. The significance of these organizational problems is manifest in the delivery of patient visits to MUSC outpatient clinics; a significant proportion of this clinical activity involves indigent patients.

#### Financial Affairs

The College experienced modest budgetary growth of approximately 1.3 million dollars over the previous year, from \$31,085,899 to \$32,306,463.

In compliance with the State's "no growth" policy, the College experienced a net full-time faculty increase of one. Part-time faculty

increased 107 over 1979-80; these consist, for the most part, of non-paid and Consortium faculty. Faculty appointments have varied in number as the various departments have succeeded in filling vacancies according to their ordered plans.

### **Student Body**

The College of Medicine has admitted 165 students each year since 1971. The number of female applicants continues to increase (both White and Black;) the number admitted increased from 37 to 46.

In 1980, of the 366 applicants from South Carolina, 159 were accepted. There were 4 Black admissions in 1979 and 5 in 1980.

The curriculum continued to be reviewed and refined. As a result of the Accreditation Site Visit Team's recommendations, a Curriculum Retreat was conducted by Dr. J. R. Sosnowski. Also, a new Curriculum Planning Committee, chaired by Dr. A. B. Glassman, was established, as well as a Task Force on Evaluation and Grading, chaired by Dr. John Corley.

### **COLLEGE OF DENTAL MEDICINE**

The College, which returned to a modified four-year curriculum, graduated 14 students in December and 40 in June. All graduates spent six weeks in off-campus dental practice experience. Many of these sites are rural areas in which the student can gain proper perspective as to the advantages of practicing in currently underserved areas.

A Master's program in periodontics was established in the College of Dental Medicine in cooperation with the College of Allied Health Sciences. As the year progressed, and when it became mandated by the State Budget and Control Board that funding be reduced, it was with regret that it became necessary to phase out the graduate prosthodontic program. The number of first year general dentistry residents was reduced from six to three.

Clinical income was at a higher level, but correspondingly, costs of producing this income were also higher. Efforts were made to have dental assistants employed at the Medical University reclassified because they all perform some teaching activities at various levels. The number of days the dental clinic in Family Practice operates was reduced because both federal and state funds have been cut.

The second floor of Colcock Hall was renovated to house Periodontics Department faculty offices and research laboratory. An



additional laboratory on the same floor was built for the use of the Department of Operative Dentistry, Biophysical Dentistry, Crown and Bridge, and Prosthodontics for studying various dental materials. The latter effort is directed at developing materials of improved quality at lower cost.

Alterations were begun on Classroom No. 2 to provide a better arrangement for audiovisual utilization. This room will also be ideal for Continuing Education courses with fewer than 60 participants.

Continuing Education programs were well received. Dr. Julian Habercam coordinated 20 courses in five different locations in South Carolina, drawing a total of 752 participants.

The quantity and quality of scientific articles published by the faculty continued to increase. Faculty members authored two books and several served on review committees for national publications.

The amount of research being carried out is especially commendable, considering the large number of student contact hours required of faculty. The Department of Biophysical Dentistry continued to receive large grants from the National Institutes of Health, while the Genetics Division was awarded three different grants for the year.

Student Clinic Day was an outstanding event this year and student activities in national programs were on the rise. The students will host a regional meeting in September, 1981.

The Student Financial Aid Office has done an excellent job of locating loan money, and while the cost of dental education continues to rise, no student has had to drop out of school. Monthly television programs between Charleston and Columbia, where MUSC students take part of their training, have helped improve communications and off-campus instruction.

The reduction in State funds and failure of federal capitation funds to be renewed present sizable problems to the College. Tuition and clinic fees will have to be raised to offset these reductions. An ad hoc committee was formed to review the school's entire operation, to make recommendations regarding total expenditures, and to seek ways to reduce costs without adversely affecting quality education in comprehensive dental care.



## COLLEGE OF GRADUATE STUDIES

### TABLE I

#### *Student Application Data*

<i>Students</i>	<i>1980</i>	<i>1981</i>
Applying .....	153	169
Accepted .....	35	31
Admitted .....	23	26
Graduated		
M.S. ....	15	5
Ph.D. ....	10	10

The number of applicants for 1981 increased over that of the previous year in contrast to the negative trend nationally. The aggressive recruiting efforts of the Molecular and Cellular Biology Program and the Medical Scientist Training Program plus the growing recognition nationwide of the quality of the faculty are largely responsible for the increase. Further, the number of accepted applicants who were admitted into graduate programs was approximately 84 percent, the highest percentage of admissions in the recent history of the College. At the suggestion of the Long Range Planning Committee, which was largely responsible for this success, a permanent committee for recruitment chaired by Dr. Maria Buse was established.

### TABLE II

#### *Student Qualifications for Admission*

	<i>1980</i>	<i>1981</i>
GPA .....	2.96	3.30
GRE .....	1123	1174

#### **Summer Undergraduate Research Program**

The undergraduate program, now in its second year, again provided diversified opportunities for biomedical research. Additionally a High School Minority Research Apprenticeship and a Short Term Research Training Program for health professional students were funded federally this summer and should help in recruitment for graduate school and in increasing the awareness of the importance of scientific investigation.

TABLE III

*Summer Undergraduate Research Program*

<i>Undergraduate Institution</i>	<i>No.</i>	<i>MUSC Department</i>	<i>No.</i>
College of Charleston .....	2	Ophthalmology .....	1
Olivet College .....	1	Pathology .....	2
Hartwick College .....	1	Biometry .....	2
Louisiana State University ..	2	Immunology .....	3
Belmont Abbey College .....	1	Medicine .....	2
Mercer College .....	1	Laboratory Medicine .....	1
Northwestern University .....	1		
Wake Forest University .....	1		
Brandeis University .....	1		

**Medical Scientist Training Program**

The program, now under the supervision of Dr. Steven Brostoff, has been very successful in its recruiting efforts. A total of seven candidates was admitted to the College of Medicine and Graduate Studies this year to pursue studies designed to produce clinical investigators. Table IV summarizes the qualifications of these students.

TABLE IV

<i>Average GPA</i>	<i>Average GRE</i>	<i>Average MCAT</i>
3.50 .....	1273 .....	62

Undergraduate institutions from which these students were graduated are:

University of California—Berkeley  
Wofford College  
University of Wisconsin  
Baptist College at Charleston  
University of California—Santa Barbara  
State University College—Brockport  
College of Charleston

**Visiting Professors**

Two visiting professors were sponsored by the College, Dr. James D. Watson (Cold Spring Harbor Laboratory, N. Y.), Molecular and Cellular Biology Program, and Dr. Joseph Tupper (Syracuse University, N. Y.), Physiology.

As an alternative to the Visiting Professor Program, the College helped sponsor two symposia (*Neurobiology in Charleston, III*, and



*Membranes and Recognition*) and provided support for a speaker, Dr. Gordon Shepherd from Yale University, at the annual meeting of the S. C. Chapter of the Society for Neuroscience.

### Postdoctoral Fellowships

The College sponsored 18 postdoctoral trainees during the fiscal year.

TABLE V

<i>Title</i>	<i>Number</i>
Pharmacology .....	2
Pathology .....	1
Neurology .....	2
Biochemistry .....	4
Medicine .....	1
Immunology .....	4
College of Pharmacy .....	1
Marine Biomedical Research Program .....	1
Ophthalmology .....	2

Each postdoctoral award is accompanied by a requirement that extramural support for subsequent training must be sought. It is anticipated the requirement will stimulate an increase in the number of extramurally funded postdoctoral positions at the Medical University.

### Student Travel

The College provided travel support for 13 students to eight national meetings where they presented scientific papers. Their attendance called attention to the excellent research being performed here.

### Recruitment

It is the goal of the Dean's Office to increase the number of graduate students entering the program to approximately 40 per year. Particular emphasis will be given to recruitment in Anatomy, Biochemistry, and Physiology to a minimum of five entering students in each of these disciplines. Increased emphasis will be given to the development of mechanisms to provide more clinically oriented research exposure to students who identify with this as a career choice. The Medical University has a unique capability in this regard. The postdoctoral program will also continue to recruit postdoctoral trainees with clinical interests.



## Department of Biometry

The Department received support from several training and research grants and contracts in the total amount of \$292,612 as follows: Training Grants, \$52,366; Research, \$106,715; Computer Services, \$54,147, and Faculty/Staff Salary Support, \$79,384.

The Upjohn Pharmaceutical Co. again sponsored a pre-doctoral fellow, the fellowship providing \$8,000 for stipend and other student costs. The fellow, who is permitted to work at regular salary at Upjohn in Kalamazoo, Mich., during the summer, will be the on-site project officer for an Upjohn sponsored research program investigating a new birth control product in Kenya, Africa, this fall. His research project should be completed this coming year.

The Department continued to play an important role in the development of computer resources for the University, providing computer and statistical support for more than 200 independent collaborative and consultative projects in and outside the University.

Forty courses were taught to 624 students by the faculty in five of the University's six colleges. The Department also continued its seminar series, sponsoring 20 seminars and 11 visiting lecturers.

Five minority students were sponsored by the National Science Foundation to work for the Department and take courses at MUSC during the summer, and four minority high school students sponsored by a National Institutes of Health grant to the College of Graduate Studies took courses in Biometry. Both groups will complete their research projects this winter.

With the assistance of the Area Health Education Center and an Upjohn grant, the Department offered a four-week summer minority program for four college students during June.

In addition, small stipends were identified for undergraduate students seeking summer employment at MUSC.

The faculty presented 69 papers, and authored or co-authored 44 technical publications and six abstracts. Of these, two were books and two were chapters in books.

## COLLEGE OF PHARMACY

Use of the Drug Interaction Data Base, developed at the Medical University and marketed by National Data Corporation, continued to expand. Stanford University chose the data base as its in-house operational source of drug information over the system it had previously developed. Also, the federal government as part of its growing computer network has chosen the NDC system for major military installations.

The College is presently attempting to place in operation two PDP-15 computers, formerly used in Family Medicine. Lack of funding, however, is holding up their activation.

Following two years of cooperative planning with the University of South Carolina, a joint Ph.D. proposal was submitted to the Commission on Higher Education and approved at the Commission's February, 1981, meeting. The program will be offered by the College of Pharmacy in the fall of 1981.

Dr. Alvin F. Dodds, who retired on June 30 after 34 years of service with the College, was awarded the Golden Mortar and Pestle Award as the outstanding teacher in the College during 1980-81. Dr. C. Wayne Weart, for the second consecutive year, was named the outstanding teacher in the Department of Family Medicine. Dr. James F. Cooper was presented the first Founders Day Award of the American Pharmaceutical Association for his work in Nuclear Pharmacy.

On the international scene, one faculty member was invited to present a series of lectures on "Hypertension" to several pharmacy associations in Australia and at the Southeast Asian Pharmacy Conference held in Manila, the Philippines. Another faculty member presented a series of lectures on pharmacokinetics to the College of Pharmacy in Venezuela and was an invited guest at the dedication of the new College of Pharmacy in the Dominican Republic.

The faculty presented 70 seminars in various parts of the nation on numerous aspects of professional and scientific pharmacy. In addition, twenty-three local seminars were arranged for civic groups on drug abuse and poison control. Eleven papers were delivered at national meetings of the American Society of Hospital Pharmacy, American Pharmaceutical Association, American Society for Parenteral and Enteral Nutrition, and American Association of Colleges of Pharmacy.



Two faculty members coordinated the College's Third Annual Pharmaceutical Development Conference in Charleston. Forty-three participants, from across the nation, attended the program. A three-day workshop on LAL Test Methodology was held for 12 members of industry. This test was developed by a member of the faculty and will become an official pyrogen test method.

During the 1979-80 academic year, pharmacy students began taking the same pharmacology course offered to medical students. To provide the needed background, course changes in the biochemistry, physiology, and pathology courses have been instituted. Additionally, changes in the anatomy course are being studied.

During an especially active year, Kappa Psi and Phi Delta Chi hosted the Southeastern regional meetings of their respective fraternities.

The Student American Pharmaceutical Association (S.A.Ph.A.) continued participation in local Hypertension and Diabetic Clinics in shopping malls in the greater Charleston area. Because of the programs' success, the students were invited to present a paper on their activities at the National S.A.Ph.A. meeting held in St. Louis.

Sixty-eight students received unduplicated financial aid during the year, with \$49,725 awarded in Health Professions Education Assistance Act Loans, \$19,498 in Basic Educational Opportunity Grants, \$12,200 in National Direct Student Loans, \$21,175 in work study projects, \$11,077 in Supplemental Educational Opportunity Grants, \$17,200 from the S. C. Student Loan Corporation, \$5,000 from the NARD Foundation, \$8,525 in private loans or scholarships, and \$49,829 in out-of-state Guaranteed Student Loans.

A \$50,000 gift, shared with the Department of Family Medicine, was received in January. In addition, approximately \$1,800 was received from alumni donations, \$2,000 each from Ciba-Geigy and the Upjohn Corporation, \$200 from A. H. Robins Corporation, and \$200 from Merck, Sharp, and Dohme. A \$750 donation was provided by Burroughs-Wellcome Corporation for scholarship purposes in the name of alumnus Albert Jacobs.

Dr. Ray R. Maddox received a \$12,000 grant from the PMA Foundation to study "Tobramycin in the Neonatal Patient." He is in the second year of this study. He is also in the second year of a \$15,000 collaborator grant from Eli Lilly and Company with the Department of Neurology.

Dr. John B. Hynes continued into the third year of a \$70,000 grant from the National Large Bowel Cancer Project, and the third year of a \$51,000 grant from the American Cancer Society.

## COLLEGE OF NURSING

Challenge and change characterized the year. New leadership was provided for the Undergraduate Program and a representative assigned from the College of Nursing to the Francis Marion College campus to facilitate the development of the College Satellite there. She also will serve as coordinator on the Charleston campus of the Special Project Grant, "BSN Facilitation for Working Registered Nurses," funded by the Department of Health and Human Services, as of July 1, 1981. Another faculty member will be recruited for the Satellite at Francis Marion College.

One constant in a year of change was the scholastic performance of the graduating class. The College of Nursing again achieved the highest percentage of graduates passing the State Board Examination for Nursing of any nursing baccalaureate program in the state.

Although the reaccreditation review of the National League for Nursing has been rescheduled for Fall, 1984, faculty have begun self-study preparatory for more concentrated internal evaluation during the next several years. The faculty was organized into task forces to accomplish such work as the revision of the philosophy and conceptual framework of the curriculum, a study of the committee structure of the College and standardization of instruments for student evaluation of faculty and courses. The faculty devoted five days in May to the study of the conceptual framework, two days of which consisted of a two-day workshop conducted by Dr. Jacqueline Fawcett, Associate Professor, University of Pennsylvania.

Providing baccalaureate education for working registered nurses in South Carolina continued to be a priority of the College. Efforts toward this goal are on-going at Rock Hill, Florence and Charleston. Twenty-eight registered nurses were enrolled in nursing courses at the Satellite BSN Program at Winthrop College, where an additional 55 were enrolled in general education courses. Fifteen registered nurse students were graduated from the program during the year. A grant proposal for the period September 1, 1981, through August 31, 1983, in the amount of \$100,058 (federal funds) was submitted in November, 1980, in an effort to maintain on-going federal financial support for the Satellite BSN Program at Winthrop College.

Progress has been made toward developing a Satellite BSN Program at Francis Marion College (FMC) since the written proposal for it was approved in May, 1980, by the South Carolina Commis-



sion on Higher Education. As of May, 1981, a faculty member of the College of Nursing has been engaged on a part-time basis in advising prospective students for this program on the FMC Campus. Thirteen students have completed general education requirements and plan to take the necessary validating examinations via classes especially tailored to their needs being provided by the Pee Dee Area Health Education Center.

The Special Charleston Project Grant which became operational on July 1, 1981, will make possible the admission of 20 additional working registered nurses from the Charleston area to the Baccalaureate Program in the first year and 20 more each year thereafter for as long as the program continues.

The Graduate Program, initiated in 1978, saw the addition of a full-time Medical-Surgical faculty member. Efforts were effective in recruiting a chairperson of Medical-Surgical Nursing who will join the faculty in July, 1981. This will bring the total number of faculty in the Graduate Program to seven, including chairpersons of Maternal-Newborn Nursing, Nursing of Children and Medical-Surgical Nursing.

The current enrollment in the Graduate Program is 45. Five students have completed course work for the degree and are working to meet research requirements with their Thesis Committees. The College offered nine graduate courses in the fall and twelve in the spring semester. Five courses will be offered in the summer. The number of courses that carry graduate credits has increased appreciably; College of Nursing course offerings now include 37 graduate courses. In the fall, some students in every major will be enrolled in clinical nursing courses.

The current grant for the third year of the Graduate Program terminates September 30, 1981. An Advanced Nurse Training Renewal Application for a two-year period, ending September 30, 1983, was submitted November 1, 1980. The amount of funding requested for the first year was \$128,811. In addition, a Nurse Traineeship Grant Application for 16 traineeships (which provide tuition and stipend support) was submitted in April, 1981; funding requested for the traineeships was \$101,980.

In the Undergraduate Program, the decision was made to adopt the American College Testing Proficiency Examination Program (ACT-PEP) tests for the validation of junior level clinical nursing courses for registered nurse students, rather than the departmental examinations used for this purpose in 1980. This decision was made

following careful evaluation of the ACT-PEP, including participation of four faculty in a workshop for evaluation purposes. In an effort to accommodate registered nurse students, the College of Nursing sought and obtained approval to become a test-site for ACT-PEP, hosting the test in Spring, 1981. Although the College has assumed the added responsibility of proctoring examinations, students are assured the availability of a local test-site.

National League for Nursing Achievement Tests became a requisite for all baccalaureate students as of 1980-81.

Summer training opportunities outside of Charleston were again made available to students. Twenty-four students are taking Practicum in remote areas of the state while two additional students are engaged in learning experiences at the National Cancer Institute of the National Institutes of Health. Of the 24 students, four are located at Beaufort Memorial Hospital, six at Conway General Hospital and 14 at McLeod Regional Medical Center in Florence. Faculty for students in these three locations are respectively from the University of South Carolina at Aiken, Coastal Carolina College (Conway) and McLeod Regional Medical Center. The two Area Health Education Centers (the Low Country and Pee Dee) and the three hospitals involved help to defray extra expenses for faculty salaries and students' living expenses. Five additional students are taking Nursing Elective in a variety of locations in the state, including Florence, Myrtle Beach, Westville, Ridgeville and Ridge Spring.

The Dean's Lecture Series, initiated last year, again attracted two distinguished nurses to interact with faculty, students and registered nurses in South Carolina and neighboring states. The speakers this year were Madeline Leininger, Ph.D., Professor of Nursing, University of Utah, "Transcultural Nursing"; and Margretta M. Styles, Ed.D., Professor and Dean, School of Nursing, University of California, San Francisco, "Professionalism and Professionhood in Nursing".

#### **Nurse Midwifery Program**

Clinical services provided by the Nurse-Midwifery faculty and staff included 6,744 antepartal visits, the delivery of 597 babies and the care of many mothers who were transferred to Medical Management during labor and delivery for a variety of reasons. Many patients being followed for care during the prenatal and intrapartal phase were seen for the postpartum and family planning evaluation. The faculty and staff also provided support and assistance to medical students in both prenatal and intrapartal clinical



areas. The Nurse-Midwifery Program continued to be coordinated with state representatives from Improved Pregnancy Outcome and Maternity Care.

Developed during the year was a clinical assessment skills course in the same format as the Nurse-Midwifery modules. The course is now being evaluated for effective incorporation into the graduate curriculum.

### **Continuing Education Program**

A total of 10 continuing education offerings was provided and three workshops co-sponsored, attracting 587 nurse participants. An additional 565 persons attended the two presentations of the Dean's Lecture Series, bringing total attendance to 1,132. Faculty for continuing education offerings consisted of a number of nationally known speakers and faculty from universities in Georgia and South Carolina including five from the MUSC College of Nursing. Written evaluations of offerings by participants ranged from good to excellent. The College participated with state nursing groups in planning future programs for nurses in South Carolina. A representative from the College participated in a workshop, "Regional Action for Continuing Education in Nursing", the first of a series of three, sponsored by the Southern Collegiate Council on Nursing Education.

### **COLLEGE OF ALLIED HEALTH SCIENCES**

The following health education programs were engaged in preparing a total of 656 students for entry into various health careers during the reporting period:

#### **UPPER DIVISION PROGRAMS**

- Anesthesia for Nurses (Advanced Certificate)
- Cytotechnology (Baccalaureate and Advanced Certificate)
- Dental Hygiene (Baccalaureate)
- Extracorporeal Circulation Technology (Baccalaureate and Advanced Certificate)
- Medical Record Administration (Baccalaureate)
- Medical Technology (Baccalaureate)
- Occupational Therapy (Baccalaureate)
- Orthoptic Preceptorship (Advanced Certificate)
- Physical Therapy (Baccalaureate)
- Physician's Assistant (Advanced Certificate)

Radiologic Technology (Baccalaureate)

Radiography Track

Radiation Therapy Track

Nuclear Medicine Track

Respiratory Therapy (Baccalaureate)

Master in Health Sciences (Allied Health Graduate)

## LOWER DIVISION PROGRAMS

### (CO-SPONSORED WITH TRIDENT TECHNICAL COLLEGE)

Dental Assisting (Associate)

Dental Laboratory Technology (Associate)

Histologic Technique (Diploma)

Histotechnology (Associate)

Medical Laboratory Technology (Associate)

Ophthalmic Technician (Associate)

Practical Nursing (Diploma)

Radiologic Technology (Associate)

Respiratory Therapy (Associate)

Two hundred sixty-nine graduates at all levels were vigorously recruited by health care-related institutions. Inquiries relative to employment indicated an availability average of at least three positions per graduate. Collectively, over 80 percent of the graduates elected to remain within the State of South Carolina.

In statewide recruitment efforts, written and telephone communications, as well as personal visits, brought awareness of the diverse health educational opportunities to many public and private college level students of the State. This effort resulted in the College having perhaps the best overall applicant pool in its history, both in quality and quantity. While varying with the individual program, an average of two plus applications for each position available was recorded. In light of a generally decreasing pool of prospective students, this positive applicant picture was very encouraging.

The Master in Health Sciences Program increased its student enrollment to a high of 100 part-time participants. As primarily an evening and weekend hours effort, this program continued to meet a need for preparing mid-level supervisory personnel for health care institutions within the State. Off-campus graduate presentations in the Greenville/Spartanburg/Anderson region proved very attractive and thus allowed allied health professionals in the upper part of South Carolina to pursue their studies with-



out leaving the area and their positions. Cooperative interest and support within the Greenville/Spartanburg/Anderson health professions community has enabled the continuance of this off-campus effort in a most satisfactory manner.

College research efforts expanded significantly during the year, especially in conjunction with the graduate program. As a result, the number of papers presented and/or published during the year nearly doubled that of the previous year. Faculty participation in professional activities proved rewarding as several members were elected to important national offices, reflecting positively on the caliber of the faculty.

Faculty members also were major contributors of continuing education offerings for practicing allied health professionals, primarily within South Carolina. Fifty-one such offerings were reported. The faculty participated in 222 programs which served to keep them current in their specialties.

For the first time in its history the College awarded several academic scholarships. The assistance was made possible through College faculty/staff efforts and through contributions made by several outside institutions. Approximately \$15,000 was raised as a principal amount enabling continuance of this scholarship effort on a yearly basis. The College proposes to expand this sum to \$50,000 within the next three years.

Performance of graduating students on national level registry or certification examinations was notable, exceeding the national averages in most of the involved health delivery fields. Several programs recorded graduate performance levels in the national upper 10 percent brackets. For those allied health graduates involved with State licensure, the examination performance levels were generally above the known averages.

#### **OFFICE OF UNIVERSITY STUDENT PROGRAMS**

Responding to new Federal regulations governing student housing loans, the University withdrew last year's application and will file a new proposal for a \$3.5 million project to house 244 occupants. The only housing now operated by the University is a 250-bed dormitory. Student housing in the Charleston area continues to be scarce, expensive and/or substandard.

As student interest in physical fitness has grown, so has participation in both organized sports and intramurals. The Intramural Athletic Program now covers eight sports and involves about 500

students. The schedule starts in early fall with tennis and flag football, continues through ten weeks of basketball and volleyball, and ends with spring and summer softball and tennis. Other sports are slated throughout the year according to the students' academic schedules and availability of facilities. Since MUSC has no athletic facilities, the cooperative arrangements with The Citadel and, to a lesser extent, the College of Charleston and the City Department of Leisure Services are critical to the recreation programs. A continuing first priority with students is the construction of the Medical University's own student center/athletic facility. An account totaling nearly \$60,000 in donations has been established in the Health Sciences Foundation to serve as the springboard for a major fund raising effort to realize such a facility.

The high quality of the MUSC Film Group's Saturday Night Series was evidenced by increased attendance and improved financial position. In addition to the regular Saturday Night Series, the Film Group sponsored a special eight-week series of old classics and published a University Activities Calendar. The 1981-82 Series has been booked and the new Film Group calendar will have the format of a weekly date book with poster-style art work.

The Brown Bag Concerts were again popular and will continue next year. However, personnel changes within the Charleston Symphony have eliminated some of the groups previously scheduled, and smaller budgets have reduced the number of concerts that can be scheduled. Last year two evening Chamber Concerts were presented on an experimental basis in St. Luke's Chapel. As these were well-received, evening concerts will be continued as funds permit. Discussions were held with various performing arts groups in the community to increase the number of cultural presentations available to Medical University students.

The Phi Chi Medical Fraternity served as a support group for a large number of medical students and, additionally, provided much-needed social space on campus for other student groups.

Students from the College of Pharmacy have contributed to campus traditions by sponsoring a university-wide student talent show each year. In three years it has developed into a quality show of 18 to 20 acts which attracts standing room only audiences.

Students are participating in greater numbers in programs sponsored by the local churches in their Campus Ministry. The increased participation is, in part, a response to outreach programs, recognizing the unique needs and time demands placed on professional students.



Provision of student financial aid increased in complexity with each stroke of the pen in Washington. Perhaps indicative of the times, the number of students seeking aid through this office increased to 1,600, a dramatic rise over the 1,200 of the previous year.

During the academic year, financial assistance made available to Medical University students from all sources exceeded \$6.2 million.

A high priority for 1981-82 will be to obtain computer and word-processing support to reduce the overwhelming amount of paperwork now being processed manually.

### **UNIVERSITY REGISTRAR AND DIRECTOR OF ADMISSIONS**

With the installation of a new University computer, additional on-line capability allowed for increased programming to update the Student Information System. The changeover from the batch mode of processing information to an on-line system was implemented. In addition, this capability was extended to the Admission systems, which include the Colleges of Graduate Studies, Medicine, Nursing (B.S.N. and M.S.N.), and Allied Health Sciences (B.S. and M.H.S.). Conversion to on-line input should improve accuracy of data bases, reduction of turnaround time, elimination of common errors through editing, and response to requests received from college departments and committees. Portions of the data base of the Student Information System were made available to other administrative offices, such as Financial Aid for administering scholarships, loans and grants, and Student Accounts Receivable for billing purposes.

A five-year calendar was adopted, which will assist many academic and administrative areas in their long-range planning.

A change in grading systems was adopted and implemented by a number of colleges as recommended by accreditation agencies. A University system is desirable and a continued effort is being made to transform the grading system into a uniform one.

A continuing evaluation of statistical information for improved content and timeliness was made. This information is of special value to the Colleges and University Administration for long-range planning.

## UNIVERSITY ENROLLMENT

1980-81

### College of Graduate Studies

Master of Science .....	21
Doctor of Philosophy .....	88
<b>TOTAL</b> .....	<b>109</b>

### College of Medicine

First Year .....	166
Second Year .....	165
Third Year .....	159
Fourth Year .....	167
<b>TOTAL</b> .....	<b>657</b>

### College of Dental Medicine

First Year .....	57
Second Year .....	59
Third Year .....	52
Fourth Year .....	55
<b>TOTAL</b> .....	<b>223</b>

### College of Pharmacy

Baccalaureate Program .....	
Third Year .....	38
Fourth Year .....	63
Fifth Year .....	59
Special Student .....	1
<b>TOTAL</b> .....	<b>161</b>

### Doctor of Pharmacy (Pharm.D.)

Fifth Year .....	11
Sixth Year .....	12
<b>TOTAL—College of Pharmacy</b> .....	<b>23</b>
	<b>184</b>



### College of Nursing

Master of Science in Nursing .....	40
Baccalaureate Program	
Second Year .....	73
Third Year .....	92
Fourth Year .....	99
<b>TOTAL</b> .....	<b>304</b>
Nurse Midwifery (Certificate Program) .....	3
<b>TOTAL—College of Nursing</b> .....	<b>307</b>

### College of Allied Health Sciences

Master in Health Sciences .....	55
Special Students—Master in Health Sciences .....	8
<b>TOTAL</b> .....	<b>63</b>
Postbaccalaureate Certificate Programs .....	64
Baccalaureate Programs .....	263
Special Student—Baccalaureate .....	1
<b>TOTAL</b> .....	<b>264</b>
Joint Programs with Trident Technical College	
Associate Degree .....	181
Certificate Programs .....	56
<b>TOTAL</b> .....	<b>237</b>
<b>TOTAL—College of Allied Health Sciences</b> .....	<b>628</b>
Unclassified .....	49
<b>TOTAL ENROLLMENT</b> .....	<b>2,157</b>

### Post Doctoral Fellows, Residents and Interns

Post Doctoral Fellows .....	44
House Staff (MUSC)	
Interns—Medicine .....	32
Residents—Medicine .....	342
Residents—Dental Medicine .....	27
<b>TOTAL—House Staff</b> .....	<b>401</b>
Residents—Pharmacy .....	6
<b>TOTAL—MUSC Interns and Residents</b> .....	<b>407</b>

S. C. Statewide Family Residency System	
Anderson	25
Charleston *	47
Columbia	29
Florence (New 1980)	2
Greenville	24
Greenwood (New 1980)	5
Spartanburg	34

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TOTAL—Family Practice	166
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S. C. Consortium Hospital Interns and Residents

Columbia	86
Greenville	72
Spartanburg	14

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TOTAL S. C. Consortium Hospitals	172
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TOTAL—S. C. Statewide Family Practice Residency System and Education Programs (Less MUSC Family Medicine)	291
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ON CAMPUS—Interns and Residents	407
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OFF CAMPUS—Interns and Residents	291
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TOTAL	698
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**Enrollment Summary**

Post Doctoral Fellows	44
MUSC House Staff (includes Family Medicine)	407
S. C. Statewide Family Practice System	119
Consortium Hospital Interns and Residents	172

MUSC Colleges

Graduate Studies	109
Medicine	657
Dental Medicine	223
Pharmacy	184
Nursing	307
Allied Health Sciences	391
Joint Allied Health Sciences Programs with Trident Technical College	237
Unclassified	49

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GRAND TOTAL	2,899
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\* (Included in MUSC House Staff—47)



# DEGREES AND/OR CERTIFICATES CONFERRED

## 1980-81

### House Staff

#### Certificate

Residents—Medicine .....	136
Residents—Dental Medicine .....	12
Interns—Medicine .....	29

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TOTAL ..... 177

### Graduate Studies

Doctor of Philosophy .....	10
Master of Science .....	5

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TOTAL ..... 15

### Medicine

Doctor of Medicine .....	166
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### Dental Medicine

Doctor of Dental Medicine .....	55
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### Pharmacy

Doctor of Pharmacy .....	13
Bachelor of Science .....	58

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TOTAL ..... 71

### Nursing

Bachelor of Science in Nursing .....	89
Nurse Midwifery Certificate .....	5

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TOTAL ..... 94

### Allied Health Sciences

Master in Health Sciences .....	7
Postbaccalaureate Certificate	
Anesthesia for Nurses .....	9
Cytotechnology .....	4
Extracorporeal Circulation Technology .....	2
Physician's Assistant .....	26

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TOTAL ..... 41

Bachelor of Science	
Cytotechnology .....	5
Dental Hygiene .....	14
Extracorporeal Circulation Technology .....	5
Medical Record Administration .....	14
Medical Technology .....	15
Occupational Therapy .....	14
Physical Therapy .....	24
Radiologic Technology .....	14
Respiratory Therapy .....	4
TOTAL .....	109
MUSC/Trident Technical College Programs ***	
Associate Degree	
Dental Assisting* .....	20
Dental Laboratory Technology** .....	7
Histotechnology* .....	4
Medical Laboratory Technology* .....	11
Ophthalmic Technician* .....	4
Radiologic Technology* .....	14
Respiratory Therapy* .....	6
TOTAL .....	66
Certificate	
Histologic Technique** .....	5
Practical Nursing** .....	41
TOTAL .....	46
Total Allied Health Sciences .....	269
TOTAL UNIVERSITY GRADUATES .....	847

\* Associate in Health Sciences Degree awarded by Trident Technical College.

\*\* Diploma awarded by Trident Technical College.

\*\*\* Certificate awarded by Medical University.



## OFFICE OF RESEARCH AND SPONSORED PROGRAMS

During the fiscal year, the University was awarded \$9,855,464 in external funds for direct costs of research and sponsored programs, which in turn generated nearly \$1.4 million of indirect funds for the University. The award total was up \$200,000 over the previous year primarily because of increases in corporate support and federal contracts. It reflected well on the university in the face of a general tightening of funding support around the nation.

In amount of giving, the Federal government provides the majority of support, with Corporate sources second, followed by Foundations and Voluntary Health Organizations. Most encouraging has been the doubling of support from non-federal sources over the past three years. This private support is being encouraged by legislation which has been reintroduced in Congress.

The percentage of extramural support for research has grown 13 percent over the three-year period. Two primary factors contributing to the growth have been the use of institutional funds by the University Research Committee to encourage investigator development and the emphasis on research capabilities in the recruitment of new faculty. Also, the number of principal investigators has climbed nearly 70 percent from 83 to 137.

Clinical research has grown dramatically in importance as evidenced in the number of active projects involving human subjects. The number exceeded 600 this year, a near doubling of clinical projects in the past five years.

Equal progress has been made in the availability of post-doctoral research training positions. The number of these positions has quadrupled in three years, from 10 to 41. Even with this extraordinary increase, the University is still slightly below its goal based upon data from nine Southeastern universities with medical schools. Thus, continued emphasis will be placed on post-doctoral training.

The University Research Committee met eight times during the year and received 143 applications of which 75 were funded. A total of \$519,268 was awarded to these projects. These funds were used primarily for equipment to initiate research, supplies, and other miscellaneous items of support. Of some note is the fact that over 50 percent of those receiving this institutional support subsequently obtained extramural support for their research. The amount of the extramural funding was four times that received from the University, pointing up the soundness of this program.

A recent study of the National Science Foundation has shown that public institutions require a significant commitment to the continued support of scientific equipment. Among the 43 extramural awards to MUSC this year, funding in the amount of over one-half million dollars was provided for equipment alone. Five of those awards were for equipment costing over \$20,000, including \$60,000 for partial payment toward a new transmission electron microscope, \$38,971 toward a new high pressure liquid chromatograph, \$38,000 for a new computer graphics terminal, and \$60,000 for several new ultracentrifuges. In addition, MUSC has just received \$134,780 for partial payment of a new activated cell sorter.

Through the University Research Committee, over \$250,000 has been provided from institutional funds for equipment development. Growth of the University's research equipment base represents a significant improvement to the research environment.

A second environmental issue is research space. In June, 1979, according to the space report compiled for the Perkins and Will Five Year Plan, there was a total of 119,000 square feet of research space on campus. Only 2,200 square feet of additional research space has been identified since that time. The Plan, in recognition of the critical need for space, projects a required threefold increase by 1985.

A third major environmental focus concerns the relationship between University research and the technological and economic progress of the State. In a recent letter to the Director of the National Science Foundation in support of an application to stimulate research within the State, Governor Richard Riley stated that ". . . this program will provide the State with an improved research base. Hopefully, this will aid in achieving one of my administration's goals; to increase industrial development and technological advancement in South Carolina."

The premise that continued economic growth and improvements in the quality of life are absolutely dependent on the further development of research capacity is no longer questioned. An excellent foundation has been laid for this development. A Report to Council of Presidents on Research in Institutions of Higher Learning in South Carolina has been prepared. This report outlines six recommendations to improve research capabilities.



The recommendations are:

1. *That the Governor, the State legislature, and the Commission on Higher Education endorse and actively support a five-year goal of tripling the non-appropriated funds for research support for South Carolina's postsecondary institutions.*

2. *That the Council of Presidents undertake the following tasks: a review of all research equipment and facilities within the State; a review of current procedures for purchasing and support of research equipment and facilities; and the preparation of a plan for the development and optimal use of such resources.*

3. *That the Council of Presidents assume a leadership role in further developing the State's postsecondary research base, particularly through the strengthening of interinstitutional cooperation among the State universities, the State colleges, and South Carolina's private postsecondary institutions.*

4. *That the legislature improve the environment for the research within the State by removing the current and planned regulations applicable to institutions of higher learning as part of legislative oversight.*

5. *That the State establish a system by which new legislation and regulations may be reviewed in hearings prior to their enactment so that the full impact of such actions can be discussed and recommendations from institutions of higher learning can be considered.*

6. *That the Governor appoint a "blue ribbon" committee of internationally prominent research scientists who will recommend a long-range research development and utilization agenda for the State together with recommendations for the particular legislative and funding strategies that should be pursued in order to achieve the desired expansion and utilization of the State's postsecondary research base.*

A first step in this process has been taken with the Governor's recent initiative in forming the Study Committee for a Plan of Action to Tie Together the Research Capabilities of Our Universities and Industrial Development. This committee is now meeting on a monthly basis. The University President serves as a member of this committee.

A subcommittee has been formed in the Charleston area under the chairmanship of the Dean of Graduate Studies. This subcommittee will look into potential linkages between University research

faculty and technical representatives of the industrial/business community.

A recent example of the product of such interaction was the announcement of Litton Bionetics to open a new facility in Charleston by early 1982. Litton stated that "... Charleston was selected as the site for the firm because of the presence of a major medical university. . . ." MUSC contains two of the world's leading laboratories for the basic biomedical research in areas of interest to Litton. The University and Litton Bionetics counterparts are actively exploring potential linkages of direct and indirect support to both.

### OFFICE OF EDUCATIONAL SERVICES

More than 60,000 test papers were scored via the computerized Student Examination Evaluation Program (SEEP) during the year, an increase of approximately 10 percent for the fourth consecutive year. The new format of the extensive report generated for each test was well received. Seminars were available to the faculty of every college to help them effectively utilize the information from the test reports.

A total of 97 courses, involving 150 faculty, used the Personalized Assessment of Course Effectiveness (PACE) program. This system provides the faculty with a flexible, sophisticated method for collecting student response to instructional effectiveness. For the first time PACE II, for clinical courses, was used on a trial basis. It will be available for general use in the coming fall semester.

The evaluation of all senior electives of the College of Medicine was coordinated by this office, with the results forwarded to the Assistant Dean for Curriculum and the director of the Area Health Education Center (AHEC).

The office was heavily involved in faculty development in teaching, holding seminars in all six colleges of the University. Individual consultation was provided to more than 100 faculty.

Formal courses were taught by the Office of Educational Services faculty for students in the Pharm.D. program, Dental Medicine Residents, Dental Hygiene, and Medical Records. Elective courses were taught in the Colleges of Allied Health Sciences, Dental Medicine and Medicine. Two faculty members served as instructors in Biometry.

The Learning Skills Program involved 400 students and 46 faculty, spanning 247 instructional hours.



In an area closely related to faculty development, the Office of Educational Services coordinated the Statewide Needs Assessment Program (SNAP) in cooperation with AHEC. Statewide assessments were made for Medical Technology, Pharmacy, Pediatrics, the College of Nursing (MUSC), College of Allied Health Sciences (MUSC), and statewide nursing. These activities involved 148 institutions and units in South Carolina.

Assistance was provided to the faculty in the development of 36 videotaped instructional units. Several of these units included more than one program. The office also assisted the S. C. Lung Association, Medical University Hospital Volunteer Services, Department of Personnel Services, and the Division of Continuing Education in developing audiovisual instructional/training materials. There were 24 slide-tape and slide-monograph programs developed for three courses.

The Office of Educational Services has on-going development/evaluation programs in the following areas:

College of Medicine

Department of Medicine—Physical Diagnosis, Introduction to Clinical Medicine, Infectious Diseases, Junior Clerkship, Pulmonary Teaching Grant.

Department of Obstetrics and Gynecology—Junior Lecture Series.

Department of Surgery—Examination Program.

Department of Family Medicine—Review of Resident Qualification Written Exam.

Department of Biometry—Review of test units.

Department of Pathology—Test Review.

Department of Immunology—Test Review.

College of Dental Medicine

Department of Crown and Bridge—Course Review and Syllabus Development.

Department of Pediatric Dentistry—Course Review and Evaluation Program.

Department of Biophysical Dentistry—Course Review.

Department of Prosthodontics—Course Review and Student Evaluation Program.

Department of Operative Dentistry—Course Review.

College of Pharmacy—Curriculum Evaluation.

College of Nursing—Fundamentals of Nursing Course, PACE Seminar, Adult Medical-Surgical Nursing, Psychiatric-Mental Health Nursing, Nurse-Midwifery Program.

College of Allied Health Sciences—Dental Hygiene, Physical Therapy, Physician's Assistant Program, Nurse Anesthesia, Medical Records.

College of Graduate Studies—Graduate Curriculum Committee.

### **Division of Audiovisual Production**

The Illustration and Design Section collected two first place awards and Best of Show in the local Advertising Federation competition. The work receiving the Best of Show award was entered in national competition at the Health Sciences Communication Association annual meeting in Philadelphia and received high commendation. The Cinematography Section produced two films that were accepted by the American College of Surgeons. A major project involving all sections of the division was the production of numerous large exhibits and a multi-media program entitled "The History of Medicine in South Carolina" for the S. C. Medical Association's annual meeting in Charleston.

Owing to this year's cutback in funding the staff positions of the Classroom Support Section and that of one artist had to be terminated. A complete reorganization of Classroom Support, now the Audiovisual Equipment Pool, was undertaken and instruction started on audiovisual equipment use in the classroom for students and staff.

The Photography Section commenced color printing this year and realized financial savings as well as quicker turn-around time. Also procured was the Spindler D-24 Director from the University of South Carolina for the production of multi-media programs.

### **LIBRARY AND LEARNING RESOURCE CENTER**

A review of publications for the period 1976-1980 found that the faculty had published 1,592 journal articles (including letters), 610 abstracts, and 17 editorials. Using criteria established by Journal Citation Reports of the Sciences Citation Index, the Library Reference Staff found that 54.6 per cent of the journal articles were published in journals judged to be "important" to biomedical research.

A proposal has been drawn to purchase the Chemical Patent File on microfiche in the coming fiscal year. Partial support has been made available by the Drug Science Foundation and Westvaco, with the balance of the necessary funds to be sought from other local industries. With this purchase, the MUSC Library will be the



only medical library in the United States holding the Chemical Patent File.

Also, contract proposal has been submitted to the National Library of Medicine to provide regional medical library services to the Southeastern United States.

During the year, 6,868 monographs, bound journals, and audiovisual titles were added to the Library's collection, and 2,851 current periodicals or serials were received. Total holdings numbered 141,361 items on June 30, 1981.

State appropriations of \$890,870 (\$798,837 Library; \$91,843 Learning Resource Center) were received. The principal area of budgetary concern was in the purchase of books and journals. Actual cost increases during the past year were 22.78 percent for books and 30.3 percent for journals, with the result that book purchases remained static and fewer journal orders were issued.

The Library received \$7,487 for services provided to members of the Southeastern Regional Medical Library Program. In cooperation with the University of South Carolina School of Medicine Library, a computerized list of MUSC's journal holdings was produced.

A total of 69,105 books, journals and audiovisual titles was circulated. The reference staff answered 3,764 extensive and ready reference questions. A total of 7,232 computerized searches was run on NLM, BRS, and Lockheed data bases, a 16.1 per cent increase. There were 1,809 unique subject searches run on MEDLINE, a 6.5 percent increase exclusive of 604 searches run by Extension Services.

The Interlibrary Loan and Extension Offices combined efforts to produce 14,896 transactions. The Interlibrary Loan Office provided 10,616 monographs, journals, or photocopies of journal articles to users throughout South Carolina and the Southeastern Region, an increase of 19.4 percent. Of these, 7,533 went to South Carolina borrowers.

The Extension Office provided 2,748 documents to South Carolina users and ran 604 MEDLINE searches.

The Library-Learning Resource staff hosted six training sessions, four for local librarians and two for local, state and regional participants. The staff also consulted with 22 institutions and individuals, and participated as instructors in three workshops.

## LIBRARY & LEARNING RESOURCE CENTER

### 1980-1981 STATISTICS

#### *Holdings:*

Total Holdings,* June 30, 1980 .....	134,769
Added, 1980-81 .....	6,868
Withdrawn, 1980-81 .....	276
Total Holdings,* June 30, 1981 .....	141,361
Periodicals & Serials currently Received (2305 + 546) ....	2,851

#### *Number of Interlibrary Loan Transactions:*

Incoming .....	1,532
Outgoing .....	13,364
Total .....	14,896

#### *Circulation:*

Journals .....	34,149
Monographs .....	33,183
Audiovisuals .....	1,776
Total .....	69,105

#### *Budget:*

State Appropriations	
Library .....	\$798,837
LRC .....	91,843
Total .....	\$890,870

### WARING HISTORICAL LIBRARY

The project of putting leather protector and dressing on the leather bound books was completed this year, and the Library is about two-thirds through the time-consuming task of removing tape from the books which need rebinding and placing them in acid-free paper folders. With the help of Waring Library Society funds, a large atlas, Scarpa's *Neurologicae Tabulae*, 1794, was completely restored by an expert bookbinder, and 23 other books were rebacked or rebound by hand during the year.

Following the suggestions of Dr. Frank B. Rogers of Denver, Colo., consultant to the Waring Library in March of 1980, the main library has turned the former South Carolina Room into the Waring Historical Library Annex to house the secondary books related to the history of medicine and allied sciences and journals before 1910. Plans have been made for that room also to house

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\* Monographs, bound journals, audiovisual packages.



primary source materials after 1871. The project of recataloging the entire Waring collection is an on-going one, in which the curator of the Waring Library is assisting. Another project which has been continuing for many years and is now almost complete is the cataloging of the museum collection.

An important reference work, the reprint of the First Series of the Index-Catalogue of the Library of the Surgeon-General's Office, 16 volumes, 1880-1895, was an addition to the Library's collection this year, bought with the help of the Wyman Fund. Six pamphlets and two books of the 19th Century relating to South Carolina medicine were purchased with Waring Library Society funds. The Library was given approximately 35 books of the 19th and early 20th Centuries during the year. Other gifts of note were a daguerreotype of Dr. J. G. F. Wurdemann, class of 1831, and a medical bill of 1772 of Dr. George Hahnbaum to Christ Church Parish. A complete listing of the Library's acquisitions and gifts was reported periodically in *Library Notes*.

Sixty-one researchers used the Library's resources during the year, with Georgia, Maine, Pennsylvania, and Massachusetts the states represented besides South Carolina. The curator answered 83 letters of inquiry as well as many telephone calls. Some subjects of research were black periodicals of the South, "folk medicine," comparison of the Boston and Charleston medical societies before the Civil War, therapeutics in the 19th Century as taught in the medical schools, yellow fever, and the Charleston earthquake of 1886. The Library provided photographs and materials for the covers of *Library Notes* and *The Journal of the South Carolina Medical Association*, as well as material for the multi-media slide show on the medical history of South Carolina. Exhibits were changed fairly regularly in the lobbies of buildings at MUSC. Of note this year were displays to commemorate the 25th anniversary of the Medical University Hospital and another on Women in Medicine in South Carolina to celebrate Women's History Week.

The Waring Library Society completed its third successful year with a membership of 212, including 38 students. The Society sponsored two lectures in the history of medicine during the year and an Essay Contest for the students. The Waring Historical Library and the Macaulay Museum of Dental History were visited by most of the incoming freshmen of the colleges on orientation tours, and were also visited by some high school groups during the year.

## STUDENT-EMPLOYEE HEALTH SERVICES

Because of new requirements of the State Department of Health and Environmental Control and the Occupational Safety and Health Administration, this office set in motion a program of physicals for all persons working with hazardous chemicals or organic solvents. This effort affects nearly 1,500 individuals working at the Medical University. The physical entails a preliminary screening by a nurse involving visual and hearing tests, liver function tests, a urinalysis, tuberculin skin test, and a chest x-ray, prior to the physical by the physician. To perform these additional duties, two new positions were established within the office—one clerical and one staff nurse.

During the report period, Health Services was responsible for 24-hour coverage for over 2,500 students (including 401 House-staff), and occupational health care for 5,383 employees. It received 17,822 outpatient visits, consisting of 8,240 visits from students; 8,862 from employees; 25 from visitors; and 720 from private OB-GYN and Primary Care Patients. Of the total, 2,438 visits were made after regular working hours, on weekends, and on holidays. The Hospital Medical Residents saw 260 of these patients.

The 492 student admissions to the outpatient sick list accounted for a total of 1,205 sick days.

There were 1,066 tuberculin skin tests done for students, 13 of which were initially positive and 11 were converters; and 1,101 tuberculin skin tests for employees, of which 45 were initially positive and 11 were converters.

A total of 148 lost time accidents resulted in a loss of 860 days, and there were 123 restricted days lost. The total number of visits for all service related injuries was approximately 1,800. The Student Mental Health Program provided approximately 120 students with over 400 hours of therapy. Assistance of a part-time faculty member was required as of January, 1981. Thirteen inpatient admissions resulted in a total of 50 hospital days compared with thirteen student admissions and 68 hospital days last year. There is growing concern about the number of students who have no hospitalization insurance and have to be admitted as service patients. Every effort is being made to require insurance coverage of all students.



## MEDICAL UNIVERSITY HOSPITAL

Marked progress was made during the year in the continuing effort to create an "ideal" patient environment for tertiary care. Specific attention was directed toward the improvement of the quality of patient services through the development of: two additional nursing units, a Cardiothoracic Unit and Dermatology Unit; expansion of patient education programs; and the organization of an Oncology Nursing Team.

In response to the widespread nursing shortage, the Hospital has developed a career ladder approach to provide recognition for job accomplishments. It has become an effective tool for both the recruitment and retention of nurses.

### Nursing Units

The new Cardiothoracic Unit, consisting of 26 beds, was organized on 6-West to accommodate cardiology and thoracic surgery patients. The unit has an autonomous nursing staff working in conjunction with cardiovascular clinical specialists to assure thorough understanding of hemodynamics and arrhythmias.

The Dermatology Unit consists of six beds with a staff of five registered nurses and seven auxiliary nursing personnel. This staff provides inpatient and outpatient functions jointly. Treatment of all types of dermatological conditions is provided, some forms of dermatitis requiring an average hospital length of stay of three weeks.

### Patient Education Programs

Adult patient education programs are now available in the specialty areas of diabetes, cardiothoracic, oncology and ostomy care. Pediatric patient education programs are provided patients/families in the areas of diabetes, oncology, cardiothoracic, surgery, and tracheostomy care and management. Also available are obstetrical, gynecological and newborn infant care programs.

Individual patient education programs are being developed to instruct patients/families about the nature of the patient's illness, the type of diagnostic procedures and the preparation for the procedures the patient will undergo, as well as the postoperative treatment (i.e., diet, medication, activity) the patient will receive while hospitalized. Also, discharge instructions will be given containing information about such items as wound care, medications, home management of commonly associated problems, activity, and follow-up care.

All patient education programs are coordinated with other existing instructional services, both within and outside of the Hospital, such as the pediatric radiology and the public health maternal and child care clinics. Instructional services are delivered through individual contact, printed materials, and audiovisual means.

The Cancer Nursing Team came into existence at the beginning of 1981. Patient education is high on its list of priorities since it has been generally found that patients better tolerate their treatment and accept the disease with much less apprehension if they are aware of what is happening to them and the reason for it. The entire family is included in this educational process because of the important relationship of home environment to the patient's well-being. A considerable amount of time has been spent in acquiring and developing booklets and films about a number of therapeutic procedures.

The Hospital has also been instrumental in organizing the SHARE Program for cancer patients. These patients meet two hours a week at MUSC not only to "share" feelings, but to acquire information about causes of cancer, its treatment, and rehabilitation. All clinical disciplines are represented in this group.

An annual event to be known as "Fun Day" is being planned for cancer patients ages 15 to 25. The initial gathering will take place in the late summer.

### **Nurse Recruitment and Retention**

The clinical career ladder which has been developed provides the licensed nurse with advancement opportunities as a Nurse Clinician or an Assistant Head Nurse. The Nurse Clinician, through increased responsibilities, is able not only to demonstrate clinical expertise but teaching and communication skills as well. The position of Assistant Head Nurse allows an individual to assume management and leadership responsibilities as delegated by the Head Nurse. It involves the assumption of responsibility on a 24-hour basis for implementation of patient care, utilization of personnel, and control of the work environment. Both positions permit an individual engaged in nursing access to upward mobility based on individual interests and skills. Additional activities to enhance recognition of the nurse within the Hospital have been the introduction of the Nurse of the Year Award in connection with a statewide competition, seminars and discussion groups on the theme of "Living with Work," and the organization of a Staff Nurse Recruitment Committee to provide a means for improved



ideas and communication. It is envisioned these activities will contribute to improved job satisfaction for nursing.

### **Construction and Renovation**

During the year, architectural design was completed and Certificate of Need approval received on the following projects:

- Medical Intensive Care Unit (6 Beds)
- Burn Unit (9 Beds)
- Relocation of Occupational Therapy
- Renovation of BCD Building (Second Floor) for Primary Care
- Replacement of Windows
- Directional Sign System
- East Wing—Children's Hospital Addition
- Relocation of Respiratory Therapy
- Renovation for Vascular Radiography Suite
- Renovation of 8-East Nursery
- Renovation of Operating Room for Cardiovascular Surgery

### **Financial Status**

Another fiscally sound year was recorded. Cash collections from generated operating revenue came to \$53,108,940 and the state appropriation totaled \$15,498,038. The Hospital expended \$68.6 million including \$1,894,434 for medical equipment.

# MEDICAL UNIVERSITY HOSPITAL AND CLINICS

## STATISTICAL SUMMARY

For the 12 months ending June 30, 1981

Beds and Bassinets Available .....	511
<b>Patient Days:</b>	
General Nursing Units .....	114,254
Special Care Units .....	9,924
Nursery .....	25,478
Total .....	<u>149,656</u>
Average Census .....	410.0
Average Census—Nursery .....	69.8
Average Length-of-Stay .....	7.5
Average Length-of-Stay—Nursery .....	5.4
Percent Occupancy .....	78.5
Patient Admissions .....	20,152
<b>Clinic Visits:</b>	
MUH Clinic .....	97,208
Cancer Clinic .....	6,011
Cardiac Clinic .....	1,861
Family Practice Unit .....	26,419
Eye Clinic .....	7,998
Private Diagnostic Clinic .....	44,316
Primary Care Unit .....	8,601
Total .....	<u>192,414</u>
Surgical Procedures .....	7,804
Number of Deliveries .....	3,175
Clinical Pathology Procedures .....	771,977
Anatomical Pathology Procedures .....	60,540
Diagnostic Radiology Procedures .....	95,180
Therapeutic Radiology Procedures .....	16,371
Nuclear Medicine Procedures .....	3,903
Physical Therapy Procedures .....	29,621
<b>Meals Served:</b>	
Patient .....	390,685
Cafeteria .....	1,033,469
Total .....	<u>1,424,154</u>
Pounds of Laundry .....	1,445,004
Number of Employees .....	2,404



have been received from several areas of the state for these programs.

Currently, AHEC undergraduate clinical rotations are supplied for several technical colleges, Bob Jones University, USC Regional campuses, and other educational institutions. In addition, a baccalaureate program initiated by AHEC continues to operate at Winthrop College. AHEC funds have made clinical facilities of community hospitals available for the training of many licensed practical nurses, and associate degree, diploma and baccalaureate degree nurses. Currently, 1,049 nursing students are involved in LPN and RN rotations.

### **Pharmacy Education**

Two regional sites, Midlands and Spartanburg, have served the needs of pharmacy graduate and undergraduate students. This year a total of 80 residents and undergraduate pharmacy students rotated through these sites. All Doctor of Pharmacy students and University of South Carolina students are also utilizing them.

### **Allied Health**

Substantial activity has been generated by the growth in the number of allied health professionals within the state. This group of professionals makes up the largest and most diverse population of health professionals today. Providing a career ladder for this group presents a tremendous challenge for the state. Cooperative efforts between MUSC Extension Programs and the MUSC College of Allied Health Sciences are currently under way.

This year the Master's degree in Health Sciences program was initiated in Spartanburg and Greenville. Five students are currently involved in this program, rotating between the two sites for their training.

Additional undergraduate clinical courses are being supplied at Spartanburg, Greenville, Midlands, Pee Dee and Upper Savannah. These rotations cover a wide variety of training areas: Medical technology, radiologic technology, nuclear medicine technology, ultrasound, dietary, respiratory therapy, medical records, anesthesia and clinical pastoral services. Approximately 176 students were enrolled in these courses.

### **Health Manpower Training**

In an average month, 20,000 cumulative hours of health manpower training were recorded in the areas of medicine, dentistry, nursing, allied health, pharmacy and community/consumer educa-

tion at seven regional sites. This represents 3.3 hours per professional for some 6,000 health professionals throughout the state. Since 1978, the number of programs offered is up 187 percent, the number of participants up 129 percent and cumulative hours up 64 percent.

Total nursing participation was projected at 20,264 by the end of this year and for allied health—20,034.

### Minority Affairs

Efforts of the minority affairs program have been instrumental in producing a 95 percent increase in black physicians between 1972 and 1980.

The number of black residents has increased from 1 in 1974 to 15 in 1980, with a total of 24 black residents supplied by MUSC's College of Medicine during this period.

The Summer Health Careers program was again a success with 27 undergraduate minority students from 17 colleges and universities participating. The program provides a unique opportunity for minority students to experience health careers education prior to any formal commitment to this field of study. Eighty-six percent of former participants are currently enrolled in health related degree programs. This program and others are making health education for minorities a probability rather than a possibility.

### Educational Resources

Extensive use is being made of computers to supply resource listings, needs assessments, and instruction. Developed and implemented was the computer based "Clearinghouse of Educational Opportunities." The program was designed to alert South Carolina health practitioners to educational opportunities, aid continuing education personnel in calendar planning and eliminate unnecessary duplication. A "Clearinghouse" print-out of reported activities is being mailed to appropriate South Carolina health education offices monthly. An on-line computer-based list of mediated instructional materials, AVAIL, continues to be utilized. Its number of member institutions has grown to 14.

With a phone-coupled computer terminal, member users have access to the seven AHEC media centers, the MUSC Learning Resource Center, and many statewide agencies.

Other developments: Volume 1 of the *South Carolina AHEC Directory of Health Education Resources* was printed and distributed. Volume 2 will be produced using the data in the AVAIL



system. SNAP, the statewide needs assessment program, is a curriculum development tool utilized by continuing education program planners. This computer program is universal and has the potential to serve all health fields. "The Information Specialist" is a newsletter which is distributed bimonthly to over 350 health-educators. It lists free and low-cost sources of information and materials.

### **AFFIRMATIVE ACTION**

A number of significant actions were taken during the year including:

1. Revision of the Affirmative Action Plan in which new committee assignments were made, statistics validated, a plan designed for handicapped and Vietnam veterans, and the work analysis updated.

2. Conducting a self audit of the handicapped program.

3. Completion of an audit by the Office of Federal Contract Compliance Programs and signing of a reconciliation agreement in force until 1983.

4. Completion of the South Carolina Desegregation Plan and Medical University commitment to its goals.

The University's policies of affirmative action and non-discrimination are published periodically, pointing out employee responsibility to abide by and promote the policy.

Regular training sessions are held for Personnel staff and employment practices are reviewed to make certain that religious or ethnic groups receive fair consideration for job opportunities.

The University has widened its public contact in reporting employment opportunities for minorities and women.

### **DIVISION OF CONTINUING EDUCATION**

Highlighting this year's activities was the live broadcast of the General Scientific Sessions from the 133rd South Carolina Medical Association's Annual Meeting in Charleston. This first such broadcast featured remote microwave transmission of the association's scientific sessions from the Charleston Sheraton Hotel to the Castle Pinckney studio for statewide viewing by the 30 Health Communications Network (HCN) member hospitals. This broadcast allowed physicians who were unable to attend the Annual Meeting to "attend" the scientific sessions via closed circuit television at their local hospitals. These sessions were also videotaped for future use. An additional feature of the coverage involved the closed circuit

broadcast of medical education programs into the 290 guest rooms of the Sheraton Hotel. The broadcast schedule also featured regular announcements about the convention and health information programming for physicians' spouses.

Another first for the Division was the implementation of a Graduate Student Internship with the College of Allied Health Sciences. Under the direction of an HCN staff member who also holds an adjunct faculty appointment in that College, the graduate student designed and produced a continuing education videotape on "Apheresis", a process of removing selected components from blood and returning the remaining blood to the donor or patient. This instructionally-designed package consisted of a 20-minute videotape, program guide and evaluation tool (pre and post-test) to measure the instructional validity of the package. "Apheresis," which premiered at the South Carolina Society of Medical Technologists annual meeting, was extremely well received and has since been utilized extensively for various department meetings and during regularly scheduled closed circuit broadcasts.

During the year, there was increased involvement in interactive broadcasts. Physician attendance exceeding 2,700 was reported for HCN's popular televised Grand Rounds Series, which utilizes the Network's two-way interactive video capability and network-wide telephone conference system. This two-way closed circuit system facilitates video and audio interaction between the state's health professionals covering topics in OB/GYN, Pediatrics, Family Medicine, Psychiatry and Nursing. Additionally, two-way conferences were held twice monthly between residents in dentistry at Richland Memorial Hospital in Columbia and faculty and students at the Medical University's College of Dental Medicine.

The Network reaffirmed a commitment to monthly thematic programming designed to provide viewers a more comprehensive educational experience about specific topics. HCN's second Annual Infection Control Month was highly successful, breaking attendance records set the preceding year. The documented attendance of 3,202 represents the largest number of viewers for one month in the history of the Network. Innovations incorporated into this year's Infection Control Month included an infection control forum with video interaction from Charleston, Columbia and Spartanburg and a panel of content specialists throughout the state. In November, HCN also presented Geriatrics Month, featuring programs focused on special problems related to caring for the elderly. The network produced five special programs for Geriatrics Month, three of



which were televised live to provide viewers an opportunity to ask questions of the specialists via the HCN telephone conference system.

The unique interactive capability of the Health Communications Network extended into the open circuit area. The successful interconnection with ETV's public affairs program, "Open Line," enabled medical specialists and civic authorities in Charleston to interact live with the state's viewing public.

In addition to assisting the HCN in program development, the television section of the Division had a priority objective of providing television production and maintenance support for the diverse teaching, research and continuing education requirements of the Medical University and its statewide consortium affiliates.

The Division's Conference Section sponsored or co-sponsored over 100 Continuing Medical Education (CME) conferences, seminars, workshops and mini-residencies attended by over 10,000 members of the health professions. All of these activities carried CME credit for the participants.

Mini-residencies extend to practicing physicians an opportunity to return to the teaching hospital setting for varying periods of time according to individual needs to learn new techniques. Physicians are very enthusiastic about this teaching method, and it enjoyed its second successful year.

The Conference Section arranged the scientific session for the Alumni Spring Weekend held in March, and was instrumental in arranging the 29 specialty workshops for the SCMA's annual meeting in May. Staff facilitated room assignments for these workshops on the Medical University campus. Their expertise was invaluable in assisting the Association with the registration of over 400 physicians.

Following the site visit in 1980, and in view of the conference section's outstanding achievements, the Alliance Council for Continuing Medical Education (ACCME) accredited the Division of Continuing Education for six years. This is the maximum period of time any organization may be accredited.

## SUMMARY OF ACTIVITIES

July 1, 1980 through June 30, 1981

Workshops and Seminars Sponsored or Co-Sponsored .....	115
Contact Hours for Workshops/Seminars .....	2,543
Programs Produced for Open and Closed Circuit Television (HCN) .....	47
Other Productions (Television Section) .....	72
Service Requests Completed (Production and Maintenance) .....	1,105
Live Interactive Programs .....	106
Grand Rounds Broadcasts .....	39
Satellite Broadcasts .....	6
Live Dental Conferences .....	17
Closed Circuit Broadcast Hours .....	1,003
Open Circuit Educational Television Broadcasts .....	52
(public health information)	
Educational Radio Broadcasts .....	52
(public health information)	
Videocassettes Requested .....	1,600
Audiocassettes Requested .....	140

### Number Attending, Listening or Viewing

	<i>Total</i>	<i>Seminars</i>	<i>Media</i>
		<i>Percent</i>	
Physicians .....	13,932	75%	25%
Nurses—RN's, LPN's .....	5,487	62%	38%
Allied Health .....	3,419	77%	23%
Other .....	4,546	6%	94%
Open Circuit Viewing (Adults Estimated) .....	225,000	0%	100%
FM Radio (Adults Estimated) ...	44,000	0%	100%
Videocassettes .....	6,300	0%	100%
Audiocassettes .....	140	100%	0%
Total Number Reached .....	302,824		

### Major Engineering Projects

1. Installed two one-inch Ampex video tape recorders.
2. Installed camera and monitor system in the First National Bank building for Pediatrics Department.
3. Wrote specifications for proposed Medical University Hospital patient and nurse closed circuit system.



4. Installed radio frequency and audio distribution system in Buhler Conference Room on the 4th Floor of the Basic Science Building for dental two-way conference presentations.
5. Installed radio frequency distribution system in the Hospital Amphitheatre providing capability to originate programs.
6. Installed studio interact system used by participants in ETV's public affairs program, Open Line.
7. Improved audio loops from the Castle Pinckney to Charleston Toll Test, in cooperation with the Telephone Company.
8. Made improvements to Castle Pinckney master control affecting operation and compatibility between MUSC and ETV.
9. Coordinated microwave installation at Sheraton Hotel for S. C. Medical Association remote broadcast and installed interface to the hotel's master antenna system to facilitate closed circuit broadcasts.
10. Provided maintenance support for television systems in the Eye Institute, Family Medicine, Psychiatry Department (MUSC and VA Hospital), College of Dental Medicine, campus wide facilities and Citadel (consortium agreement).

### FISCAL AFFAIRS

The annual volume of work processed continued its steady rise as shown in the following three-year comparison:

<i>Fiscal Year</i>	<i>Payroll</i>	<i>Accounts Payable</i>	<i>Total</i>
1978-79 .....	\$58,367,671	\$61,584,484	\$119,952,155
1979-80 .....	69,216,483	65,389,641	134,606,124
1980-81 .....	77,355,083	74,186,677	151,541,760

In response to statewide forecasts of fiscal austerity for 1981-82, University officials maintained a close watch over budget projections and determined that manpower cuts would be necessary. In early June, 1981, action was taken to eliminate about 100 positions. A reduction of 40 positions was accomplished by resignation or retirement and about 60 employees were actually terminated. In addition, some 30 positions were transferred from state to other funds.

In other developments during the year, the General Accounting Office revised the intra-institutional transfer system and created a dual commitment system which contributed to improvements in detail transactions. In addition, various systems not under the control of General Accounting but affecting financial reports were

analyzed and procedures changed to reduce "posting" time. The Data Control Section initiated changes in which financial reports and transactions are being categorized and captured on film, permitting extraction of financial information on a more timely basis.

Accounts Payable pursued all available discounts, achieving a 97 percent return at a savings of \$183,196 to the University. It also developed a program to show payment of non-committed requisitions and travel reimbursements on the Management Information System.

The Indirect Cost Study was completed and new computer programs were instituted which will save time in the computation of salary and wage detail.

Financial Aid continued to lower the delinquency rate of tuition and fees, the rate dropping from 9 percent to 5 percent. A new system of paying student expenses by journal entries rather than by MUSC checks was implemented.

At the direction of the Acting Vice President for Finance and the Controller, the financial statements provided to Central Administration and the Board of Trustees were completely revised. Through the revision, the financial status of each of the major subdivisions of the institution shows up with much greater clarity. In addition, the Federal and Other Funds categories are reported in a straight forward manner on a regular basis whereas they were usually reported only annually on a consolidated basis.

The University currently has 18 ongoing construction projects totaling approximately \$44 million. Accounting entries which affect these projects are generated in the Office of Project Administration. The debt service accounts are a vital source of funds to finance renovations and equipment purchases for the institution. With the use of these funds, the University is able to reduce the number of bond issues.

Under the administrative guidance of the Medical University, the Charleston County Hospital substantially improved its financial standing.



## ADMINISTRATIVE AFFAIRS

The hiring freeze imposed in November, 1980, because of budget restrictions limited the number of new employees processed through the Employment Section of the Department of Personnel Services. Much of the Section's attention was directed toward helping employees affected by the July 1, 1981, reduction-in-force to find other positions of employment. As a result of its efforts, many employees were placed in positions prior to the June 30 deadline and therefore suffered no loss of pay.

The Medical University participated in various CETA programs enabling the institution to reach a number of minority applicants. The entire cost of the programs was funded through CETA and 98 percent of the participants were minorities. The Classification and Compensation Section processed 563 position questionnaires and approximately 5,000 Personnel Action Request forms and was involved in 10 statewide position studies. Special hiring rates for registered nurses and physical therapists were approved by the State, placing the University in a more favorable position to compete in the critical labor market for these employees. Approximately 1,250 new employees were briefed by the Fringe Benefits Section on State employee benefit programs and another 44 employees received pre-retirement counseling. The Section also assisted the families of nine employees who died during the year. The Employee Development and Training Section presented 27 seminars during the year to University employees. Also, the Video/Slide Orientation program was updated for presentation to new employees. A total of 660 exit interviews was collected from employees terminating their employment with the University. Service awards were presented to 251 faculty and staff personnel for completion of 10 or more years of service to the University.

The Department of Business Operations was involved in many service activities of the institution. Under the direction of a new manager, the University Bookstore expanded its inventory of items for sale to student and employee customers. Renovation of an area in the Alumni Memorial House was begun with the projected move of the Bookstore to the new location set for October, 1981. Approximately 747,407 pieces of incoming, outgoing and campus mail were handled by Mail Services during the year. A presort permit was obtained which realized savings of more than \$300 per month in mailing costs. The MEDAIR operations of the University recorded 508 hours of flying time, providing a total of 78,210 miles of transportation for employees on University business. Dur-

ing this period, 636 flights were made within South Carolina and 14 flights out of the state.

Approximately 4.6 million pieces of paper were processed by the Microfilm Section, an increase of 1.5 million pieces over the volume of the previous year. A new quality control program was established which, through the use of a film densitometer and microscope, insures the highest quality of final microfilm product. Average student occupancy for the Alumni Memorial House for the 1981 fall and spring semesters was 221 residents. During the summer months, 241 students utilized the dormitory facilities, including participants in the Health Careers and Biometry Summer Internship Programs and dental assisting students from Florence-Darlington Technical College. Various improvements were made to the dormitory, including the installation of several handicapped-access devices. The Records Management Section continued the inventory of University records and the formulation of retention/disposition schedules for 25 University departments. Consultant services were also provided to various departments on filing methodology, forms control and microfilm feasibility.

The most noteworthy accomplishment of the Medical University Computer Center was the installation on April 25, 1981, of a new IBM 3033N computer, the culmination of three years' effort in the State procurement process and in the updating of electrical supply to the Computer Center necessary to run the larger system. Users were immediately aware of a vast improvement in response times as a result of the new equipment. Programmer productivity was improved markedly.

The Department of Public Safety engaged in a number of activities aimed at increasing personal and property security on campus. A closed-circuit television camera was installed to cover the Mill Street area and a number of new intrusion alarms was placed around campus. Crime prevention surveys of several high-risk areas were conducted and lectures were presented to incoming students on the protection of self and property. Handbooks covering this subject were distributed to University employees. The Department recovered stolen State and personal property valued at over \$7,000 during the year.

The Physical Plant Department's Design Section completed its first full year as a combined Design and Contract Administration unit. The section completed drawings and specifications for approximately \$1.1 million of alterations and renovation projects and provided contract administration for approximately \$4 million in



projects. Engineering design was completed on more than 80 projects.

Among other activities, alterations were made to numerous facilities; a contract was approved for graphic sign installation in the hospital; approval was received for eventual demolition of Building A because of structural unsoundness; improved handicap access proceeded to 70 percent completion; participated in the construction of the new Family Practice Center in Florence; and awarded a contract to tap geothermal energy.

During the year the University Safety Manual and University Fire Plan were revised and distributed throughout the University, and a hazardous waste disposal manual was written and distributed.

During the fiscal year, the Internal Auditing Department audited and verified eighteen petty cash funds, three check-cashing funds and nineteen change funds on a quarterly basis. The Department assisted the State Auditors in verifying the year-end physical inventories of University departments. Throughout the year, Internal Auditing performed periodic checks of operations of various funds and activities, including patient refund vouchers, payroll, checks, general stores inventory issues and receipts, student accounts receivable, student loans and bookstore receivables.

The University parking system is now composed of 2,853 spaces, including 2,109 reserved spaces, 58 metered public spaces, 32 free "handicapped" spaces, 310 free public spaces served by shuttle bus service, 26 contractor and service spaces, 15 ambulance/admitting spaces, 48 free patient spaces and 255 public pay spaces in the parking garage. Parking availability has more than doubled in a period of only five years.

Efforts were continued to expand and strengthen the University's Carpool and Vanpool Programs. There were 392 registered carpool participants in 1980-81, a 45 percent increase over 1979-80, and the number of carpool groups increased to 145, 55 percent greater than that of the previous year. Five commuter vans carrying 45 participants produced the following benefits: 399,000 commuter miles saved; 18,600 gallons of fuel saved; and 40 fewer vehicles traveling the roads and requiring parking spaces. Additional reserved parking was provided to students by setting aside the parking area at the Alumni House exclusively for students, by adding 32 additional spaces to the Alumni House lot and by assigning three newly-acquired lots to students.

## ACADEMIC COMPUTER ACTIVITIES

The University Computer Committee was heavily involved in the development of a five-year plan addressing computer, microcomputer and word-processing needs of the University. In the course of the study, all microcomputers and word-processors were inventoried. A questionnaire on word-processing needs was circulated to all departments and the results tallied and reviewed, which should prove most helpful in the orderly acquisition of necessary equipment.

The University Computer Center's new IBM model 3033N computer became operational this spring. Planning is now under way to tie in the computer with terminals in other areas of the campus.

In the Department of Laboratory Medicine Computer Center, software for the Microbiology Division was installed and special clinical microbiology programs were developed to supplement the commercial software. The Blood Bank Division also completed installation of its software and is using the computer on a routine basis. Laboratory Medicine is currently working with Anatomic Pathology to computerize its patient care functions.

Since Charleston County Hospital is now administered by the Medical University, Laboratory Medicine assisted the Hospital in installing a video computer terminal for viewing of patient test results obtained in the University laboratory. The county terminal is audiocoupled via telephone.

The Family Medicine Computer Center continued to enlarge its patient data base and to this end is working with prospective users of the system, both on and off campus. It will seek to enlarge its secondary storage through addition of another disk drive. The Biometry Computer Center's PRIME 550 computer has been enlarged through the addition of 250,000 words of main memory and a 300 megabyte disk drive. These additions have resulted in a better system response time and have allowed the department to continue moving programs and data bases from the University Center's IBM computer, relieving it of its considerable load. The computer which was replaced by the PRIME 550 has been exchanged for a PRIME magnetic tape drive. All of these changes have provided a much enhanced system for the use of faculty and students.

In other areas, the College of Dental Medicine converted the software from its former computer to its new PRIME 750 computer; the College of Pharmacy added hardware in support of research



and tie-ins with commercial pharmacies in the Charleston area; the Department of Radiology acquired computer-supported clinical equipment and is working to interface with the Hospital system for display of radiology results at nursing stations; and the Hospital is considering additional computerization of the intensive care and ambulatory care units.

## UNIVERSITY RELATIONS

### Development, Alumni and Public Relations

The Office of Development and Alumni Relations maintains responsibility for solicitation and acquisition of private gifts from alumni, faculty, corporations and other friends for the Medical University. During the year, a total of over \$1,000,000 in new funds was realized through a doubling of gifts in the range of \$1,000 or more, a successful fund-raising concert featuring Roberta Peters (two future concerts are planned for FY 1981-82), the creation of the Children's Fund and interest earned on investments.

The new class agent program brought an increase in the number of alumni making gifts to the Medical University. All development and alumni programs benefited greatly from the Office's computer-based records system with its word-processing capabilities and biographical data base. The *Auctus Alumni Bulletin* received two first-place publication awards during the year, including top honors in the category of "External Publications in Larger Hospitals" from the Carolinas Hospital Public Relations Society. Reductions in staff and operating budget will result in this publication's being printed semi-annually rather than quarterly during the coming year.

The Wickliffe House, the University's new faculty-alumni facility owned by the Health Sciences Foundation, was officially opened in the fall of 1980. It presently serves lunch three days a week and supports other faculty and alumni activities.

The principal objectives of public relations activities throughout the year have been to provide a broader range of improved communication services to key publics: Faculty and employees, alumni and friends of the Medical University, and opinion leaders statewide who influence financial support and recruitment of students and faculty. Special emphasis was placed on communicating as quickly as possible via mass media the University's position on issues of significance pertaining to the management of University affairs. Economic constraints required modification of frequency

and format of University publications, reduction of staff, and postponement of some projects. To offset partially the effects of these problems and to provide more efficient use of staff time, the Publications Office in Summerall Center was relocated to the Library-Administration Building in the center of the campus.

Highlights of accomplishments in public relations include providing PR consulting and staff support for the South Carolina Medical Association annual meeting in Charleston, implementing the use of special equipment for radio interviews of MUSC faculty to reach stations by phone statewide, organizing a new approach to pursue recruitment of nurses by coordinating available talent on-campus and carefully selecting off-campus expertise.

The public relations staff placed more than 1,200 news stories in state and regional newspapers; more than 250 news releases were distributed, and some 20 news conferences organized; some 200 television news reports and public service announcements were placed statewide.

Two reorganized efforts showing favorable results at year-end were solicited and scheduled presentations to civic and service clubs, using a standard, prepared sound-slide presentation for an introduction to the Medical University; and a system for accepting, organizing and coordinating requests for campus tours.

#### **Publications—Medical University Press**

The continuing space shortage has precluded any expansion of operations to keep up with the increased flow of printing orders. The alternative has been to replace aging equipment with more efficient models. Replacements this year included a Brown 20 by 24-inch vertical camera, a 20-inch Baumfolder, and an A.B. Dick automated electrostatic offset press system.

A production rate of over one million printing and fast copy impressions per month was realized, generating \$380,000 in income for the year as compared with \$345,000 for the previous fiscal year.

For the fourth straight year there was no change in fast copy prices for users.

Publications this year included:

University Five-Year Plan

Hospital Bylaws

House Staff Manual

Reference Values and Specimen Collection

Introduction to Nuclear Medicine



Clinical Pathology Residency Training Manual  
 MUSC Safety Program Booklet  
 MUSC Fire Plan  
 Notes for Medical and Graduate Students  
 Microbiology Laboratory Manual  
 My Child Has Epilepsy  
 Adult Medical and Surgical Nursing (7 modules)  
 Community Health Nursing  
 Nursing Student Learning Guides (Series of 16)  
 Obstetrics-Gynecology Residents Handbook  
 Pathology Instructional Guides (Series of 18)  
 Fundamentals of Cellular Pathology  
 Neuropathology Workbook  
 Cytopathology Collection Manual  
 Oral Pathology I and II  
 Pediatric Core Manual  
 MUSC Employee Handbook  
 Medical Pharmacology  
 Pharmacology Outline Syllabus 321 and 621-421  
 Basic and Clinical Pharmacology at MUSC  
 State Pharmacy Rules and Regulations  
 Formulary Catalogue  
 Neurodevelopmental Technique Manual  
 Functional Anatomy Syllabus  
 Electrotherapy Syllabus  
 Neurosciences PT320 Syllabus  
 Prosthetic-Orthotic Syllabus  
 Neurological Approaches I  
 Electromodalities Manual I  
 Growth and Development PT402  
 Study Guide for Neurophysiology  
 Psychiatric Evaluation Syllabus  
 Psychiatric Clerkship Syllabus  
 Behavioral Sciences Volumes I and II  
 University Commencement Program  
 Surgery Annual Report  
 Surgery Core Syllabus

Allied Health Sciences workbooks in Hematology, Physiology, Microscopy, Clinical Chemistry, Medical Terminology, Hemopathology and Clinical Bacteriology.

Allied Health Sciences Student-Faculty Handbook  
Histology and Embryology Manual  
Dental Histology Manual  
Human Anatomy  
Area Health Education Center Clearinghouse and Directory  
University Phone Book  
Biometry Student Handbook  
Chemotherapy Booklet  
Cardiac Catheterization Booklet  
University Budget  
University Student Handbook  
Film Group Calendar  
Newscope (monthly employee publication)  
Chart (weekly news report)  
Commentator (Pharmacy quarterly)  
Continuing Education Program Guides and Brochures  
Continuing Education Annual Report  
Pre-Clinical Crown and Bridge Manual  
Dental Continuing Education Programs  
Advanced Endodontics  
Dental Morphology  
Family Medicine Residency Handbook



## CHARLESTON HIGHER EDUCATION CONSORTIUM

Baptist College

Medical University of S. C.

The Citadel

S. C. Marine Resources Division

College of Charleston

Trident Technical College

A series of significant developments for the Charleston Higher Education Consortium (CHEC) began with the convening of a "University of Charleston" Study Task Force in the winter and culminated in July with the South Carolina legislature's approval of an increased State appropriation for the Consortium. The purpose of the Task Force, which was established by State Senator T. Dewey Wise under the auspices of the State Reorganization Commission, was to study the higher education needs of the tri-county area and to recommend ways in which these needs could best be met. The most important needs identified by the Task Force were the strengthening and expansion of graduate-level programs and, cutting across all of the needs listed, the necessity for delivering postsecondary programs and services in the most cost-efficient way possible. Once it became clear that the establishment of a "University of Charleston" was not, in fact, economically or politically feasible at this time, the Task Force focused its attention on the Consortium and recommended that it be strengthened.

Specifically, the Task Force recommended that the Consortium, working under the S. C. Commission on Higher Education, devise a five-year "Master Plan" that included particular objectives in the areas of graduate education, research, continuing education, faculty and staff development, articulation, and administrative services. Wherever possible, the Plan would dictate increased coordination and cooperation and the elimination of unnecessary duplication among CHEC's member institutions. The Task Force recommended, further, that the Consortium be strengthened administratively through the hiring of a full-time Executive Director and additional staff, through the provision of increased funding for program development, research, and graduate student stipends, and through establishing a community-based Advisory Committee.

The Task Force's recommendations were reflected in the legislation and accompanying request for an increased State appropriation for CHEC which Senator Wise submitted to the S. C. legislature. It will result in CHEC's receiving an additional \$100,000 from the State for the 1981-82 fiscal year. The development and accomplishments of the Consortium over the coming year and the years ahead will lie particularly in those several areas listed above.

## Consortium Financing

The Consortium's operating budget for 1980-81 was made up of member contributions totaling \$37,038 plus a State appropriation of \$69,789. Additional support for Consortium-sponsored programs and projects was provided through external grants.

## Graduate Programs

1. *Student Enrollment.* Enrollments in CHEC's three graduate programs were as follows: Marine Biology, 26 (over the full year); Master of Public Administration, 8 full-time and 35 part-time students in the fall and 9 full-time and 48 part-time students in the spring; Special Education, 256 students in the fall and 268 in the spring.

2. *Graduate Catalogue.* To better publicize all graduate programs and courses offered within the Consortium, the Graduate Deans' Committee began this past fall to print and distribute a comprehensive Listing for each semester.

3. *Planning Towards a Doctoral Program in Education.* A CHEC/University of South Carolina (USC) committee was formed this past fall to plan for a cooperative doctoral program in education. USC will begin offering courses in Charleston applicable to the doctoral degree this coming fall. Students may be accepted as degree candidates for the Charleston program under USC's own auspices as early as the 1982 spring semester.

4. *Needs Assessments in Chemistry and Applied Mathematics.* Following up on its National Science Foundation-funded survey of the continuing education needs of industrial chemists and engineers, the Consortium is funding released time this summer for Dr. W. Frank Kinard of The College of Charleston's Chemistry Department to ascertain the need for a Master of Science program in chemistry and the feasibility of establishing such a program through the Consortium. Similarly, CHEC's ad hoc Computer Sciences and Mathematics Committees plan to do a needs and feasibility assessment for a graduate program in applied mathematics.

## Research

1. *NSF Grant for Catastrophe Theory Project.* Under its Experimental Program to Stimulate Competitive Research, the National Science Foundation awarded a \$184,000 grant in support of a project in catastrophe theory that is being conducted by researchers from the Biometry Department of the Medical University and the Mathematics Departments of The Citadel and The College of



Charleston. The funding period is for three years, beginning last October 1.

2. *Dreyfus Grant for Scientific Instrumentation.* Dr. W. Frank Kinard of the Chemistry Department of the College of Charleston was awarded a \$16,500 grant from the Camille and Henry Dreyfus Foundation to equip a chemical laboratory for training students in radio-chemical measurements. The courses to be developed will be staffed by CHEC faculty and will be available to qualified students from throughout the Consortium. Long-range plans include developing a mobile demonstration program for students at institutions throughout the state. The equipment will also be available to CHEC faculty members for their use in research projects.

3. *Establishment of Sigma Xi Chapter.* Sigma Xi, The Scientific Research Society, is a national honor society formed to encourage original investigation in both pure and applied science. In 1966, a charter was granted for the establishment of the Medical University of South Carolina Sigma Xi Club. In 1974, the name of the Club was changed to the Sigma Xi Club of Charleston to indicate broader participation beyond the Medical University, including The Citadel and The College of Charleston. Beginning in 1975, a conscious effort was made to share officers among the Medical University, The Citadel, and College of Charleston, and since that time each institution has been represented among the officers for each year. Because of the growth of the Club from 26 members initially to approximately 200 members, the group petitioned for a change to Chapter status and received notification this past winter that the national Board of Directors of Sigma Xi had approved its petition.

4. *Governor's Committee for Academic/Industrial Research.* This past June, Governor Riley established a Statewide committee to devise a plan for the enhancement of research in the State and to develop closer ties between each area's universities and industrial communities. Dr. William H. Knisely and Mr. Y. W. Scarborough, the tri-county area representatives to that Committee, proposed that this area's efforts be Consortium-based and established a local committee of CHEC, industry, business and government representatives to devise this area's component of the State Plan.

## Continuing Education

1. *Endorsement of MUSC's Proposed Continuing Education Facility.* During the fall and winter, MUSC's proposal for a residential continuing education facility was approved by CHEC's Continuing Education, Academic Affairs, and Executive Committees. The center, which would accommodate meetings of up to 750 persons and up to 500 gatherings a year, would meet the major continuing education needs of the CHEC institutions. Funding options are currently being explored.

2. *Joint Program Publicity.* The CHEC Continuing Education Committee discussed the need for increasing public information about continuing education offerings available through local colleges and about the Consortium itself. As a result of these discussions, Baptist College, The Citadel, The College of Charleston, and Trident Technical College have agreed to advertise their programs in this fall's Charleston County *Guide* to community education programs. The Consortium will also take space in this publication to inform the public about Consortium programs and services that should be of particular interest to adult learners—e.g., EOC's Community Component and transfer advising services, and CHEC's cross-registration and interlibrary lending policies.

3. *Participation in Work-Education Council's Adult Learners Project.* This past spring, the Trident Work-Education Council, in conjunction with the Consortium, was one of six such councils awarded an 18-month, \$20,000 grant by the Kellogg Foundation to survey the continuing education needs of adults in the community and to construct an "action agenda" to meet these needs. The "target area" for the project surveys is the peninsular city, with a particular focus on the East Side. There, the project is working closely with City Venture, Inc., which is overseeing a major economic redevelopment program in that community.

4. *S. C. Continuing Education Award.* The S. C. Association for Continuing and Higher Education selected CHEC as the recipient of its 1980 award for having the "best cooperative arrangements among institutions in continuing education."

## Articulation

Over the past year, the CHEC institutions have made significant progress in devising articulation policies and agreements, thanks largely to the assistance of Ms. Jacklyn Krawcheck, EOC's Transfer/Articulation Advisor. All of the four-year institutions and MUSC's undergraduate programs have decided which of Trident Technical



College's courses are transferrable so that, for the first time, CHEC students have "hard" information about articulation on which they can confidently base their educational planning. This information will become readily available to CHEC counselors, students, and faculty through a Transfer Catalogue that Ms. Krawcheck has compiled. It is scheduled to be printed and distributed by the beginning of the 1981-82 academic year.

### **Educational Opportunity Center (EOC) Program**

EOC provided services to more than 1,500 clients over the past year—752 through its Community Component, 1,418 through its Secondary Schools Component, and 410 through its Postsecondary Component. In addition to EOC's assistance in the area of articulation, other particularly notable accomplishments and activities were the opening of two additional community outreach centers serving the residents of Berkeley County and Johns Island; the initiation of three EOC newsletters—one as an insert to CHEC's newsletter, a "community edition" directed to adult clients, and a "schools edition" for high school students; and the conduct of a comprehensive program evaluation.

### **CHEC-School System Cooperation**

The CHEC Executive Committee has had a strong interest in increasing and strengthening the working relationships among the CHEC colleges and the local public school systems. The presidents invited Dr. Charles Vail, president of Winthrop College, to their November, 1980, Executive Committee meeting to describe the projects and procedures of the "CYLUC-W" Consortium that Winthrop has established with the seven surrounding school districts. Following that meeting, CHEC staff met with the superintendents of the Berkeley, Charleston and Dorchester school districts to acquaint them with the Consortium, to review current cooperative programs and to invite their comments and suggestions on ways to strengthen school-college cooperation. Out of those meetings came the following: additional "get acquainted" meetings with senior staff members of the Charleston and Dorchester school districts; the compilation of an inventory of current school-college activities; increased participation by school district teachers and staff in CHEC activities—e.g., the English and Languages Workshops, and the planning of further meetings among senior staff, beginning with the CHEC presidents and the three Superintendents.

### **Humanities-in-Medicine Activities**

Interinstitutional humanities-in-medicine activities included sponsorship through the Presidents' Forum of three presentations—a poetry reading (“The Doctor as Poet”) and lectures/discussions on “Reforming Medical Education” and “On the Debasing and Enhancing of Human Life.”

Through a three-year grant from the U. S. Department of Health and Human Services, an organizational focus has been created for curriculum development in the areas of humanistic health care teaching and practice at the Medical University under the title of “Humanistic Health Care Program.” This program involved MUSC’s five clinically oriented colleges—Medicine, Dental Medicine, Nursing, Pharmacy and Allied Health Sciences. Its purpose is to integrate humanistic concepts and methods into these colleges’ curricula through providing faculty development for clinical instructors and adding humanities-oriented lectures and clinical experiences for the students. As has been true of virtually all of MUSC’s humanities-in-medicine activities, College of Charleston faculty members have significant involvement as course instructors.

### **Joint Faculty and Staff Activities**

Joint faculty activities included CHEC-sponsored workshops on the teaching of writing, the teaching and curriculum integration of languages, and physics that were planned and conducted by the *ad hoc* faculty committees in those three disciplines. Joint staff activities included: CHEC’s sponsorship of a workshop on computerized bibliographic resources for the Library Committee; staff (and faculty) development and program planning activities in the area of learning disabilities; and the sponsorship of an external consultancy and two residential personal/professional development workshops by the Career Development Committee.

### **Student Affairs Staff Development Program**

Negotiations are under way with the U. S. Department of Education’s Fund for the Improvement of Postsecondary Education (EIPSE) for a grant to support a comprehensive, Consortium-wide personal and professional development program for student affairs staff members. The program will consist of a series of residential workshops, pre-workshop consultations and post-workshop follow-up activities, and a Grants-in-Aid Fund to realize a complementary set of participant-centered objectives and student-centered objectives. The participant-centered objectives will be to assist all partici-



pants: to understand their personal and professional roles as student affairs professionals; to understand their own and their institutions' particular skills and deficiencies in student services and to plan how to further develop the former and correct the latter; to understand the potential inherent in their current position and career path, and to formulate and activate a personal career development plan. The student-centered objectives will be to improve the kinds, quality and delivery of student services, particularly services for adult learners and students with "non-traditional" learning styles, assistance to students experiencing difficulties in institutional adjustment, career planning and development services, and the institutional and interinstitutional delivery and referral systems for student services. A two-year, \$80,000 grant is being sought.

#### **CHEC Artist-in-Residence**

Under a \$3,000 grant from the City of North Charleston, the Consortium sponsored a two-week community residency in February by Mitchell Korn, a widely acclaimed 12-string guitarist and composer. Modeled after the Affiliate Artist program conducted by the Consortium two years ago, this residency brought Mr. Korn before diverse audiences. His appearances ranged from discussion and practice sessions with students of music theory to open-audience concerts. His music ranged from bluegrass to classical guitar.

#### **CHEC/CIL Workshop**

On April 6, the Consortium co-sponsored a workshop with the Council for Interinstitutional Leadership (CIL). Under a partial subsidy from the Carnegie Corporation of New York, CIL, which is the national association for consortia, contributed a three-member resource team: Lew Patterson, the Executive Director of CIL; Robert Briber, the Executive Director of the Hudson-Mohawk Association of Colleges and Universities; and Jackie Pritzen, the Associate Director of Five Colleges, Inc. The team members presented "overview" sessions during the morning in such areas as the cost benefits of cooperation and interinstitutional planning strategies. During the afternoon, local experts joined the CIL facilitators to present small-group "interest" sessions, including meetings on: cooperative academic programs; student services; group purchasing; library and media cooperation; interinstitutional faculty development activities; and school/college cooperation. The overall intent of the workshop was to stimulate reflection and discussion among CHEC personnel about the short-term and long-range goals of the

Consortium and the strategies that might be taken in order to realize them. Planning for the workshop was spearheaded by the Long Range Planning Committee, in consultation with the other major CHEC committees.

### **State and Local Women Educators' Network**

Under the direction of Dr. Monica Hamill, CHEC's Associate Director for Programs and the State Coordinator for the American Council on Education's National Identification Program for Women Administrators in Higher Education, the South Carolina ACE Network held two conferences, a December conference on "Personal and Professional Strategies for Career Advancement" that was attended by 85 administrators from throughout the State, and a June symposium on "The Future of the Humanities" that was supported in part by a grant from the S. C. Committee for the Humanities and was attended by 36 senior administrators, including six college presidents. At the invitation of Dr. William H. Knisely, chairman of the S. C. Association of Colleges and Universities, Dr. Hamill also talked to the membership about the ACE program at the Association's annual meeting.

Under the direction of Dr. Sue Sommer, Dean of Graduate and Continuing Studies at The College of Charleston, and a steering committee of CHEC administrators and faculty, the Charleston Women's Network held monthly receptions throughout the year and published a Network directory of participants and resources.



